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| Application No. | Applicant(s) |  |
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| 10/798,157      | LI ET AL.    |  |
| Examiner        | Art Unit     |  |
| Sin J. Lee      | 1752         |  |

| =        | Allowed  |   |
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| <b>√</b> | Rejected | _ |

| _ | (Through numeral)<br>Cancelled |
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| Cla   | aim      | Date     |            |          |                  |                  | Claim Date         |       |          |          |   |                       | Claim Date                                       |                    |          |       |            |               |                    |  |                         |   |              |   |
|---|----------|----------|------------|----------|------------------|------------------|--------------------|-------|----------|----------|---|-----------------------|--|--------------------|----------|-------|------------|---------------|--------------------|--|-------------------------|---|--------------|---|
| _   | ē        | 8        |            | İ        | 1                |                  |                    |       |          | <u></u>  |   |                       |  |                    |          |       |            |               | Т                  |  | Γ                       | ĪΤ  | $\neg$       | T   |
| Final   | Original | 12/10/04 |            | -        |                  |                  |                    |       | Final    | Original |   |                       |  |                    |          | Final | Original   |               | 1                  | İ  |                         |   |              |   |
| Щ   | Ö        | 12       |            |          |                  | 11               | -                  |       | ᇤ        | Ö        |   |                       | 11   | ı                  |          | 這     | jić        |               |                    |  |                         |   |              | ł   |
| <u> </u>  |          | _        | $\vdash +$ | +        | $\vdash$         | ++               |                    |       | ļ        |          |   | $\dashv \perp$        | 44   |                    |          |       |            |               |                    |  |                         |   | ı            | -   |
|   | 2        | v        | -          |          | ⊢∔               |                  |                    |       |          | 51       | $-\!$ |                       | +  | -                  |          |       | 101        |               | ,                  |  |                         |   |              | $\top$  |
|   | 3        | V        | $\vdash$   | +        | $\vdash$         | +                | +                  |       |          | 52       |   |                       | $\perp$  |                    |          |       | 102        |               | ┸                  |  |                         |   | $\Box$       |   |
|   | 4        | v        |            | +-       | ╁┼               |                  | +                  | 4     | $\vdash$ | 53       |   |                       |  | 4                  | 1        |       | 103        |               | ┺                  |  |                         |   |              | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |
| $\vdash$  | 5        | v        |            | +        | <del>   -</del>  |                  |                    |       |          | 54<br>55 | $\dashv$ $+$  |                       | ++   | -                  |          |       | 104        |               | $\perp$            | <u>i                                    </u> |                         | Ш   |              | Ц.  |
| $\vdash$  | 6        | ýQ       | -          | +        | ╁╌┼╴             | $\dashv$         | +                  |       |          | 56       |   | ++                    | +  |                    |          |       | 105        |               | ↓_                 | $\sqcup$                                     |                         |   |              |   |
|   | 7        | v        |            | +        | $\vdash$         |                  |                    |       | -1       | 57       | <del></del>   |                       | ++   | +                  |          |       | 106        |               | $oldsymbol{\perp}$ | _  |                         |   | $\bot$       | ┵   |
|   | 8        | v        |            | +-       | <del>     </del> | -                | +                  |       |          | 58       | <del></del>   | +                     |  | +-                 |          |       | 107        |               | ╁                  | L  |                         | $\perp$   | _            | $\bot$  |
|   | 9        | v        | _          | +        |                  | ++               |                    |       |          | 59       | +++   | +-                    | +  | +-                 |          |       | 108        |               | ╀                  | $\vdash$                                     |                         | _   | $\dashv$     | ┷   |
|   | 10       | v        | $\top$     | 1        | $\vdash$         | ++               | +-                 |       |          | 60       | <del></del>   | +                     | +  | +                  |          |       | 109        |               | ┼-                 | Н  |                         | $\rightarrow$                                     | $\dashv$     |   |
|   | 11       | v        | 十          | 1        |                  | <del>     </del> | +-                 |       |          | 61       | <del>-   -   -  </del>  | ++                    |  |                    |          |       | 110<br>111 |               | ╂                  | $\vdash$                                     |                         |   | +            |   |
|   | 12       | v        | $\top$     |          |                  |                  | $\dashv$           |       |          | 62       | +++   | ++                    | +  | +-                 |          |       | 112        | +             | +                  | -  |                         | +   | $\dashv$     | +-  |
|   | 13       | v        | _          | 1-       | $\vdash$         | 1-1-             | _                  |       |          | 63       | +   | ++                    | ++   | +                  |          |       | 113        |               | ╀                  | $\vdash \vdash$                              | $\dashv$                | $\dashv$  | +            | +   |
|   | 14       | v        | _          | 1 7      |                  | $\top$           | +                  |       |          | 64       | <del>                                     </del>                            | ++                    | ++   | +                  | <b>.</b> |       | 114        |               |                    | $\vdash$                                     | $\dashv$                | -   | +            | ╁   |
|   | 15       | v        |            |          |                  | 1                |                    |       | $\neg$   | 65       |   | + +                   | +  | +-                 |          |       | 115        | $\dashv$      | +                  | $\vdash$                                     | $\dashv$                | $\dashv$  | +            | -   |
|   | 16       | v        |            | $\top$   |                  | -   -            | $\top$             |       |          | 66       | <del>       </del>  | ++                    | +  | _                  |          |       | 116        | - -           | ┼─                 | $\vdash \vdash$                              |                         | +   | +            | +   |
|   | 17       | v        | $\top$     |          |                  | + + +            | 1-                 |       |          | 67       | $\neg$ $+$ $+$  | +                     | +  | +                  |          |       | 117        |               | -                  | -  |                         |   | +            | +-  |
|   | 18       | v        | $\top$     | П        |                  | 7 T              | $\top$             |       |          | 68       | 111   | ++                    | +  | _                  |          |       | 118        | +-            | $\vdash$           |  | -+                      | $\dashv$  | +            | +   |
|   | 19       | v        | T          |          |                  | $\top \top$      |                    |       |          | 69       | 1   | 1                     | +  | +-                 | -        |       | 119        |               | ╁                  | ┤  | $\dashv$                | -+  | +            | +   |
|   | 20       | v        | $\top$     | $\top$   |                  | 7 1              |                    | -     |          | 70       | <del>-   -   -   -   -   -   -   -   -   -  </del>                          | + +                   | + +-   | -                  |          |       | 120        |               | +                  | $\vdash$                                     | $\dashv$                | $\dashv$  | +            | ╂╾┼   |
|   | 21       |          |            | 11       |                  |                  |                    |       |          | 71       | <del>                                     </del>                            | 17                    | ++   | +                  | -        |       | 121        | +             | $\vdash$           | -  | $\dashv$                | +   | +            | +   |
|   | 22       |          |            | 17       |                  | 7-1-             |                    |       |          | 72       |   | +                     | ++   | +                  |          |       | 122        |               | ╁                  | $\vdash$                                     | $\dashv$                | +   | +            | +   |
|   | 23       | ヿ        |            | 17       |                  | 11               | 77                 |       |          | 73       | <del>                                      </del>                           | +                     | +-+  | +                  | -        |       | 123        | +             | $\vdash$           | $\dashv$                                     | -+                      | +   | +            | +   |
|   | 24       | T        |            |          |                  |                  |                    |       |          | 74       |   | ++                    | 1-1-   | +                  |          | -     | 124        | +             | +                  | $\dashv$                                     | $\dashv$                | +   | +            | +   |
|   | 25       |          |            | $\Box$   |                  |                  | "                  |       |          | 75       |   | ++-                   | <del>1  </del>                                   | +                  | -        |       | 125        |               | $\vdash$           | $\dashv$                                     | $\dashv$                | +   | +            | ╁┤  |
|   | 26       |          |            | $\Box$   |                  |                  | $\neg \neg$        |       |          | 76       |   | 1 1                   | 1 1  |                    | T        | - +   | 126        |               | $\vdash$           | +  | $\dashv$                |   |              | +   |
|   | 27       |          | $\perp$    | П        |                  |                  | $\top$             |       |          | 77       |   | 1 1                   |  | $\top$             | -        |       | 127        |               | Н                  |  | $\dashv$                | ┿   | +            | +   |
|   | 28       |          |            | $\Box$   |                  |                  |                    |       |          | 78       |   |                       | 1-1-   | $\pm$              | -        | -     | 128        |               | $\vdash$           | -  | $\dashv$                | $\dashv$  | +            | +   |
|   | 29       |          |            |          |                  |                  |                    |       |          | 79       | 7 7 7   | $\top$                |  | $\Box$             | -        |       | 129        | +             |                    | -  | +                       | $\dashv$  | ┰            | +   |
|   | 30       |          |            |          |                  |                  |                    |       |          | 80       |   |                       |  | 17                 | -        |       | 130        | $\neg$        |                    | 一  | +                       | _   | +            | +   |
|   | 31       | $\perp$  |            |          |                  |                  |                    |       |          | 81       |   | 1-1-                  |  | $\top$             | -        |       | 131        |               | 1                  | _  | $\dashv$                | $\dashv$  | +            | ╁┤  |
|   | 32       | _        |            |          |                  |                  |                    |       |          | 82       |   |                       | 1  | $\top$             |          |       | 132        |               | Н                  | 1  | +                       | $\dashv$  | +            | +   |
|   | 33       | _        | _          | $\perp$  |                  | $\perp$          | $\perp \perp$      |       |          | 83       |   |                       |  | $\top$             |          |       | 133        |               |                    | _  | $\top$                  | $\neg +$  | +            | +-1   |
| $-\!$ | 34       | 4        |            | +        |                  | 44.              | $\perp$            |       |          | 84       |   |                       |  |                    | Γ        |       | 134        |               | П                  | +  | $\dashv$                | +   | +            | +   |
|   | 35       | $\dashv$ | -          | $\sqcup$ |                  | 1-1-             | $\perp$            |       |          | 85       | $\perp \perp \Gamma$  |                       |  |                    |          | [     | 135        |               | П                  | T  | 7                       | 7   | $\top$       | $\top$  |
|   | 36       | _        |            | 1        |                  | 11               | $\perp \perp$      |       |          | 86       | $\Box$  | $\Box \Box$           |  |                    |          |       | 136        |               |                    | $\dashv$                                     | $\top$                  | 十   | 十            | 1   |
|   | 37       | -        |            | +        |                  | 1                | Щ                  |       |          | 87       | $\bot \bot \bot$  |                       |  |                    |          |       | 137        |               |                    | T  | $\exists$               | 7   | $\top$       | $\top$  |
| $\dashv$  | 38       |          |            | 1        |                  | 4                | $\perp \perp \mid$ |       |          | 88       | $\bot \bot \bot \bot$   |                       | $\perp \Gamma$                                   |                    |          |       | 138        | $\Box$        |                    |  | $\top$                  | $\top$  | $\top$       | $\sqcap$  |
|   | 39       | -        |            | ++       | -                | +                | 44                 |       |          | 89       |   |                       |  |                    |          |       | 139        | $\Box$        |                    |  |                         | $\top$  | T            | $\top$  |
| $\dashv$  | 40<br>41 | +        | +          | +        |                  | 1                | $\perp$            |       |          | 90       |   |                       | $\coprod$  | $oxed{\Box}$       |          | . T   | 140        |               |                    |  | T                       |   | $\top$       | $\sqcap$  |
|   | 41<br>42 | +        |            | +        | +                | +                | 44                 | L     |          | 91       | + + +   | 1                     |  |                    |          |       | 141        |               |                    |  |                         | T   | T            | $\Box$  |
|   | 42       | +        | +          | ++       |                  | ++               | $\perp$            | iii L |          | 92       | + + +   | $\sqcup$              | $\sqcup \sqcup$                                  | Ш                  |          |       | 142        |               |                    | $oldsymbol{\mathbb{T}}$                      |                         |   | $\top$       | $\sqcap$  |
| -+  | 44       | $\dashv$ | +-         | ┼        | $\dashv$         | + +-             | +                  | -     |          | 93       | +   | $\bot$                | $\perp \perp$                                    | $\perp \perp$      |          |       | 143        |               |                    | $oxed{oxed}$                                 | $oldsymbol{\mathbb{T}}$ |   | $\perp$      | П   |
|   | 45       | +        | +          | ╀╌┼      | +                | +-               | +                  |       | -+       | 94       |   | ₩.                    | $\sqcup \bot$                                    | $\perp$            |          |       | 144        |               |                    | $\perp$                                      | $oxed{\bot}$            | $oldsymbol{\bot}$                                 | $oxed{\Box}$ | $\square$   |
| -+  | 46       | +        | +          | ╁┼       | -                | ++               | +                  |       |          | 95       |   | $\vdash$              | <del>                                     </del> | Ш                  |          |       | 145        | $\perp \perp$ |                    | $\perp$                                      | floor                   | $oldsymbol{\mathbb{I}}$                           |              |   |
|   | 47       | +        | -          | +        |                  | +                | +                  | - L   |          | 96       | +   | <b>↓</b> ↓_           | $\sqcup$   | $\sqcup$           | #L       |       | 146        | $\perp \perp$ |                    |  | $\Box$                  |   | $\perp$      |   |
|   | 47       | +        | +          | ++       | +                | 1-               | +                  | il-   |          | 97       | +   | ₩.                    |  | $oldsymbol{\perp}$ |          |       | 147        | $\perp \perp$ |                    |  |                         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |              |   |
| -+  | 49       | +        | +          | $\vdash$ |                  | +                | +                  |       |          | 98       | ++-   | $\sqcup \!\!\! \perp$ |  | Ш                  |          |       | 148        | $\perp$       | $\perp \downarrow$ | $\perp$                                      | $\perp$                 |   | L            |   |
| - +   | 50       | +        | +          | +        | +                | +-               | +                  | L     | +1       | 99       | +++   | <del>  -</del>        | $\vdash \vdash$                                  | Ш                  | L        |       | 149        | -             | $\perp$            |  |                         |   | $\perp$      |   |
|   | JU       | L        |            | ட        | l                |                  | L                  |       | 1        | 00       | $\perp$ $\perp$   | LL.                   | 1 1  |                    |          | ١.    | 150        | 11            |                    | - [  | - 1                     | T   |              |   |